Amendments to Claims

A full set of claims is provided, with changes shown by underlining additions and striking-through deletions in accordance with the U.S. Patent and Trademark Office "Amendments in a Revised Format" Notice.

- 1-38 (Cancelled)
- 39. (Previously Amended) A grid for a battery comprising:

a network bordered by at least one frame element, one of the frame elements having a current collector lug;

the network comprising a plurality of spaced apart wire elements, each wire element having opposed ends, each opposed end being joined to one of a plurality of nodes to define a plurality of open spaces;

a lead alloy coated on substantially all surfaces of the network;

at least a portion of the wire elements having a first transverse crosssection taken at a position intermediate the opposed ends of the wire element and a second transverse cross-section taken at one of the opposed ends of the wire element.

- 40. (Previously Amended) The grid of Claim 39 wherein the second transverse cross-section is substantially rectangular.
- 41. (Currently Amended) The grid of Claim 39 wherein the first transverse cross-section has a shape selected from the group consisting of diamond, oval, rhomboid, hexagon, and octagon.
- 42. (Currently Amended) The grid of claim Claim 39 wherein the lead alloy coating is porous.
- 43. (Previously Added) The grid of Claim 39 wherein the lead alloy comprises a lead-tin alloy.
- 44. (Currently Amended) The grid of Claim 42 43 wherein the lead-tin alloy comprises about 90 weight percent to about 99 weight percent lead and about 1 weight percent to about 10 weight percent tin.



- 45. (Currently Amended) The grid of Claim 43 44 wherein the lead-tin alloy further includes antimony.
- 46. (Currently Amended) The grid of Claim 42 43 wherein the lead-tin alloy comprises about 80 weight percent to about 98 weight percent lead, about 1 weight percent to about 10 weight percent to about 1 weight percent to about 10 weight percent antimony.
- 47. (Currently Amended) The grid of Claim 45 46 wherein the coating has a melting point less than about 620 degrees Fahrenheit.
- 48. (Currently Amended) The grid of Claim 43 44 wherein the network comprises a lead-calcium alloy.
- 49. (Currently Amended) The grid of Claim 47 48 wherein the lead-calcium alloy comprises about 0.06 weight percent to about 0.07 weight percent calcium.
- 50. (Currently Amended) The grid of Claim 48 49 wherein the lead-calcium alloy comprises at least about 0.8 weight percent tin.
- 51. (Currently Amended) The grid of Claim 49 50 wherein the lead-calcium alloy comprises about 1.2 weight percent to about 1.5 weight percent tin.
- 52. (Currently Amended) The grid of Claim 50 51 wherein the lead-calcium alloy comprises tin in a ratio to calcium of greater than about 12:1.
- 53. (Currently Amended) The grid of Claim 51 52 wherein the lead-calcium alloy comprises at least about 0 to about 0.02 weight percent silver.
 - 54. (Currently Amended) A grid for a battery\comprising:

a network bordered by at least one frame element comprising:

a plurality of spaced apart wires having a plurality of surfaces, at least one of the plurality of spaced apart wires having a substantially rectangular cross-section at a first location and a non-rectangular cross-section at a second location;

a plurality of apertures stamped provided between the plurality of spaced apart wires;

a coating comprising a lead alloy on the plurality of surfaces of the plurality of spaced apart wires;

wherein the coating is configured to couple an active material to the network.

- 55. (Currently Amended) The grid of Claim 53 54 wherein the plurality of spaced apart wires include a plurality of planar surfaces.
- 56. (Currently Amended) The grid of Claim 54 55 wherein the plurality of apertures are defined by surfaces that are transverse to the plurality of planar surfaces.
- 57. (Currently Amended) The grid of Claim 55 56 wherein the coating is disposed on the surfaces that are transverse to the plurality of planar surfaces.
- 58. (Currently Amended) The grid of Claim 53 54 wherein the lead alloy comprises a lead-tin alloy comprising about 90 weight percent to about 99 weight percent lead and about 1 weight percent to about 10 weight percent tin.
- 59. (Currently Amended) The grid of Claim $\frac{57}{58}$ wherein the lead-tin alloy further includes antimony.
- 60. (Currently Amended) The grid of Claim 53 54 wherein the lead alloy comprises a lead-tin alloy comprising about 80 weight percent to about 98 weight percent lead, about 1 weight percent to about 10 weight percent tin, and about 1 weight percent to about 10 weight percent to about 10 weight percent to about 10 weight percent antimony.
- 61. (Currently Amended) The grid of Claim 59 60 wherein the coating has a melting point less than about 620 degrees Fahrenheit.
- 62. (Currently Amended) The grid of Claim 59 60 wherein the at least one frame element includes a current collector lug.
- 63. (Currently Amended) The grid of Claim 59 60 wherein the active material comprises a paste.



- 64. (Currently Amended) The grid of Claim 59 54 wherein the wire includes a first transverse cross-section taken at a position intermediate an end of the wire and a second transverse cross-section taken at the end of the wire cross-section at the second location is one of a diamond, an oval, a rhomboid, a hexagon, and an octagon.
- 65. (Currently Amended) A grid for a battery comprising:

 means for supporting an active material and having a plurality of exposed surfaces;

a layer provided over means for coating the means for supporting the active material;

wherein the means for coating layer substantially covers the plurality of exposed surfaces;

wherein the means for supporting an active material includes at least one wire element having a generally rectangular cross-sectional shape at a first location and a non-rectangular cross-sectional shape at a second location.

- 66. (Currently Amended) The grid of Claim 64 65 wherein the means for supporting the active material comprises a network bordered by at least one frame element.
- 67. (Currently Amended) The grid of Claim 65 66 wherein the means for supporting the active material comprises a plurality of spaced apart wires having a plurality of surfaces.
- 68. (Currently Amended) The grid of Claim 66 67 wherein the means for supporting the active material comprises a plurality of apertures stamped between the plurality of spaced apart wires.
- 69. (Currently Amended) The grid of Claim 67 68 wherein the means for coating comprises a coating comprising layer comprises a lead alloy on the plurality of surfaces of the a plurality of spaced apart wires.
- 70. (Currently Amended) The grid of Claim 68 69 wherein the plurality of spaced apart wires include a plurality of planar surfaces.

- 71. (Currently Amended) The grid of Claim 69 70 wherein the plurality of apertures are defined by surfaces that are transverse to the plurality of planar surfaces.
- 72. (Currently Amended) The grid of Claim 70 71 wherein the coating layer is disposed on the surfaces that are transverse to the plurality of planar surfaces.
- 73. (Currently Amended) The grid of Claim 64 65 wherein means for coating the layer comprises a lead-tin alloy comprising about 90 weight percent to about 99 weight percent lead and about 1 weight percent to about 10 weight percent tin.
- 74. (Currently Amended) The grid of Claim 72 73 wherein the lead-tin alloy further includes antimony.
- 75. (Currently Amended) The grid of Claim 68 69 wherein the coating layer comprises about 80 weight percent to about 98 weight percent lead, about 1 weight percent to about 10 weight percent to about 10 weight percent antimony.
- 76. (Currently Amended) The grid of Claim 74 75 wherein the coating layer has a melting point less than about 620 degrees Fahrenheit.